

# Work Order ID 91735

Tuesday, October 16, 2012 3:45:50 PM

**\*91735\***

*ASAP  
Zaglpedal Lock*  
Page 1

Item ID: D4703-043 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: Lock Pin Base  
 Start Date: 10/16/2012 Start Qty: 2.00 **\*2\*** Cust Item ID:  
 Required Date: 10/23/2012 Req'd Qty: 2.00 **\*2\*** Customer:  
 Reference:

Approvals: Process Plan: MLF Date: 12-10-15 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D4703	A

100	Cut blanks as per folio	0.00							
<b>*100*</b>									
Bandsaw	Memo <u>2600</u>	0.00		<u>OK 12/10/23</u>		<u>2</u>	<u>0</u>		
Jeaspa Bandsaw	CUT BLANK AT 2.150"								

110		0.00							
<b>*110*</b>									
HAAS 1	Memo	0.00				<u>2</u>	<u>0</u>		
HAAS CNC vertical machine #1	MACHINE AS PER DWG & FOLIO FB132 FOLIO REV: <u>44</u> DWG REV: <u>A</u>			<u>OK 12/10/24</u>					

DEBURR

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width:100%; border: none;"> <tr> <td style="width:25%;">Skid-tube <input type="checkbox"/></td> <td style="width:25%;">Crosstube <input type="checkbox"/></td> <td style="width:25%;">Water Jet <input type="checkbox"/></td> <td style="width:25%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>						Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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<b>Root Cause</b>	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector																		
Doc/Data <input type="checkbox"/>																											
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Operator <input type="checkbox"/>																											
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Supplier <input type="checkbox"/>																											
Training <input type="checkbox"/>																											
Unapproved <input type="checkbox"/>																											
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# Work Order ID 91735

Tuesday, October 16, 2012 3:45:50 PM

**\*91735\***

Page 2

Item ID: D4703-043 Accept **\*N900040100\*** Setup Start **\*NS1\***  
Revision ID: Stop **\*NS2\***  
Item Name: Lock Pin Base  
Start Date: 10/16/2012 Start Qty: 2.00 **\*2\*** Cust Item ID:  
Required Date: 10/23/2012 Req'd Qty: 2.00 **\*2\*** Customer:  
Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 <b>*120*</b> QC Quality Control	QC2- Inspect parts off machine FAI/FAIB  Memo	0.00  0.00	DAS 14 9-89	12/10/24		2	0		
130 <b>*130*</b> QC Quality Control	QC8- Inspect parts - second check  Memo	0.00  0.00	DAS 25 9-89	12-10-24		②			
132 <b>*132*</b> Outsource4 Outsource process - Anodize	Memo	0.00  0.00		A.T.C D10:18241					Y 12/10/24 ②

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Thermoforming <input type="checkbox"/>            Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/>            Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/>            Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/>            Quality <input type="checkbox"/>            Other <input type="checkbox"/> </div> </div>					
<b>Root Cause</b>	<b>Date</b>	<b>Step</b>	<b>Qty</b>	<b>Description of work order update or Non-conformance</b>	<b>Initial Chief Eng</b>	<b>Action Description</b>	<b>Sign &amp; Date</b>	<b>Verification</b>	<b>QC Inspector</b>		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY				
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other	

**\*91735\***

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**\*N900040100\***

Setup Start \*NS1\*

Stop **\*NS2\***

**Start Date:** 10/16/2012    **Start Qty:** 2.00    **\*2\***

**Cust Item ID:**

**Required Date:** 10/23/2012    **Req'd Qty:** 2.00    **\*?\***

**Customer:**

Run Start \*NR1\*

**Approvals:**      **Process Plan:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Tooling:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Stop \*NR2\*

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

**Insp.  
Stamp**

0.00

**\*134\***

### Packaging

## Memo

0.00

## Packaging

0.00

**\*136\***

QC

## Memo

0.00

## Quality Control

0.00

**\*137\***

### Small Fab

## Memo

0.00

## Small Fab

INSERT HELICOIL

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width:100%; border: none;"> <tr> <td style="width: 25%;">Skid-tube <input type="checkbox"/></td> <td style="width: 25%;">Crosstube <input type="checkbox"/></td> <td style="width: 25%;">Water Jet <input type="checkbox"/></td> <td style="width: 25%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>						Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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# Work Order ID 91735

Tuesday, October 16, 2012 3:45:50 PM

**\*91735\***

Page 4

Item ID: D4703-043 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: Lock Pin Base  
 Start Date: 10/16/2012 Start Qty: 2.00 **\*2\*** Cust Item ID:  
 Required Date: 10/23/2012 Req'd Qty: 2.00 **\*2\*** Customer:  
 Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
138 <b>*138*</b> QC Quality Control	QC5- Inspect part completeness to step on W/O  Memo	0.00  0.00		DAS 15 2-33 12-10-29		2			
140 <b>*140*</b> Packaging Packaging	Identify as per dwg & Stock Location: <u>117</u>  Memo	0.00  0.00				2	SL	12/10/29	
150 <b>*150*</b> QC Quality Control	QC21- Final Inspection - Work Order Release  Memo	0.00  0.00						12/10/31	JG

12-10-31

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width:100%; border: none;"> <tr> <td style="width:25%;">Skid-tube <input type="checkbox"/></td> <td style="width:25%;">Crosstube <input type="checkbox"/></td> <td style="width:25%;">Water Jet <input type="checkbox"/></td> <td style="width:25%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>						Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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# Picklist Print

Tuesday, October 16, 2012 3:45:50 PM

Page 1

Work Order ID: 91735

Parent Item: D4703-043

Parent Item Name: Lock Pin Base

Start Date: 10/16/2012

Required Date: 10/23/2012

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A NEW ISSUE 12-09-12 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6B0.750X01.000 6061-T6 Bar .750 x 1.00		Purchased	No				f	37.4000		0.4631579			

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
MAT002	37.4	
112567	37.4	

MS21209-F415  
Heli-Coil

Purchased

No

Each

112.0000

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST314	12	
103685	12	
ST319	100	
123023	100	

.47 *OK 12/10/23*  
2 *FF 12-10-29*  
2

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

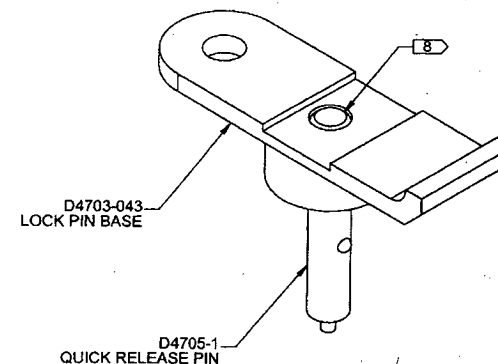
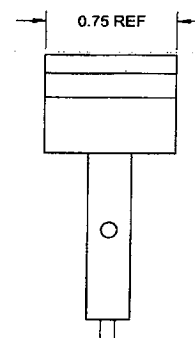
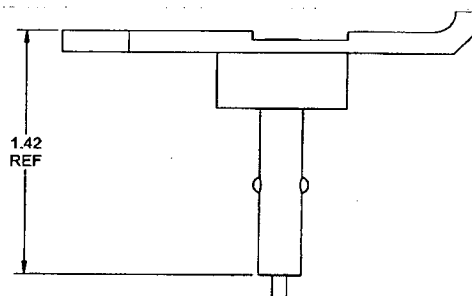
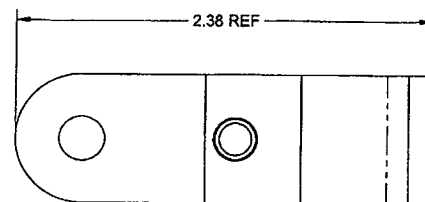
Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

**FAULT CATEGORY**

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
---	---	---	--	---

ITEM	QTY	P/N	DESCRIPTION
	X	D4703-041	LOCK PIN ASSY
1	1	D4705-1	QUICK RELEASE PIN
2	1	D4703-043	LOCK PIN BASE



# **D4703-041 LOCK PIN ASSY**

## **NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4703-041" AND B/N "BXXXXX" PER QSI 044 6.1
- 7) WEIGHT: 0.05 lbs
- 8) APPLY LOCTITE 262 TO D4703-043 THREADS PRIOR TO FASTENING D4705-1

REV.	NEW ISSUE	DESCRIPTION	RP	12.09.19
DESIGN	RP		BY	DATE
DRAWN	RP			
CHECKED	RP			
MFG. APPR.	RP			
APPROVED	RP			
DE APPR.	RP			
DATE	12.09.19			

DART AEROSPACE USA, INC.  
 KENT, WA  
 DRAWING NO. D4703  
 TITLE LOCK PIN ASSY  
 SCALE NTS  
 SHEET 1 OF 2  
 REV. A  
 COPYRIGHT © 2012 BY DART AEROSPACE USA, INC.  
 THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE REPRODUCED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

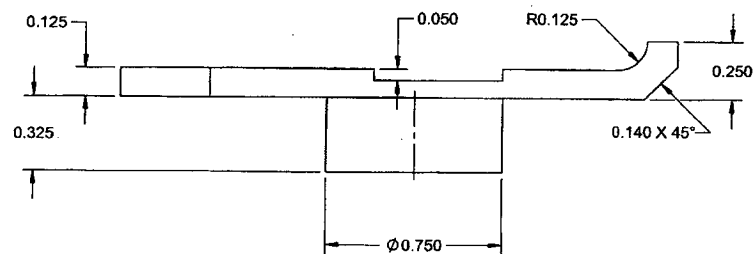
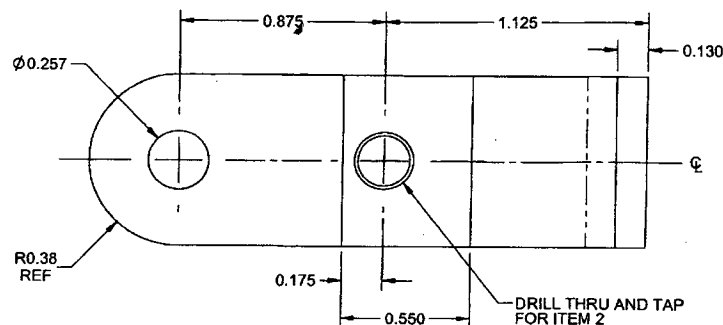
Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

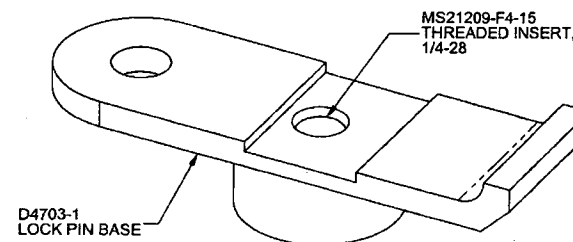
**FAULT CATEGORY**

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

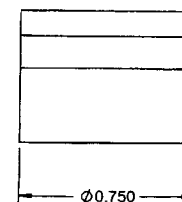
ITEM	QTY.	P/N	DESCRIPTION
	X	D4703-043	LOCK PIN BASE
1	1	D4703-1	LOCK PIN BASE
2	1	MS21209-F4-15	THREADED INSERT, 1/4-28



**D4703-1 LOCK PIN BASE**



**D4703-043 LOCK PIN BASE**



**NOTES:**

- 1) MATERIAL: 6061-T6/T651 PER QQ-A-200/8 OR QQ-A-225/8 OR ASTM B211 OR ASTM B221 REF. DART SPEC. M6061T6B
- 2) FINISH: BLACK ANODIZE PER MIL-8625F, TYPE III, CLASS 2
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.04 lbs

DESIGN	RP	<b>DART AEROSPACE USA, INC.</b>	
DRAWN	RP	KENT, WA	
CHECKED	A.P.	DRAWING NO.	REV. A
MFG. APPR.	[Signature]	D4703	SHEET 2 OF 2
APPROVED	[Signature]	TITLE	SCALE
DE APPR.	[Signature]	LOCK PIN ASSY	NTS
DATE	12.09.19	<small>COPYRIGHT © 2012 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.</small>	

#91735

RELEASE  
2012-10-12

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Thermoforming <input type="checkbox"/>            Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/>            Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/>            Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/>            Quality <input type="checkbox"/>            Other <input type="checkbox"/> </div> </div>					
<b>Root Cause</b>	<b>Date</b>	<b>Step</b>	<b>Qty</b>	<b>Description of work order update or Non-conformance</b>	<b>Initial Chief Eng</b>	<b>Action Description</b>	<b>Sign &amp; Date</b>	<b>Verification</b>	<b>QC Inspector</b>		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											

FAULT CATEGORY				
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other	





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO18241

Purchase Order Date 10/24/12

PO Print Date 10/24/12

Page Number 1 of 1

Order From :

VC-ATG001

A.T.G. INDUSTRIES INC.  
731 INDUSTRIELLE ROAD  
ROCKLAND, ON K4K 1T2  
CANADA

Contact Name

Vendor Phone

613-446-4544

Vendor Fax

613-446-4556

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAKED**  
10/24/12

Line Nbr	Reference Revision ID	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	91735	D4703-043 LOCK PIN BASE	10/25/12	2.00	Dart Truck	\$25.0000	\$50.00
			Yes				
		Special Inst:	FINISH: BLACK ANODIZE AS PER MIL-8625F, TYPE III, CLASS 2				
2	91733	D4726-1 HANDLE	10/25/12	2.00	Dart Truck	\$25.0000	\$50.00
			Yes				
		Special Inst:	FINISH: BLACK ANODIZE AS PER MIL-8625F, TYPE III, CLASS 2				
3	87729	41232-200-002-001 TUBE	10/25/12	4.00	Dart Truck	\$25.0000	\$100.00
			Yes				

CERTIFICATE OF CONFORMITY  
REQ'D UPON DELIVERY

Special Inst.

FINISH: BLACK ANODIZE AS PER  
MIL-8625F, TYPE III, CLASS 2

PO Total:

\$200.00

Change Nbr: 1

Change Date: 10/24/12

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required **YES** NO





A.T.G. Industries Inc.  
731, rue Industrielle Rd.  
PLATING DEPARTMENT  
Rockland, On K4K 1T2  
Canada  
Ph: (613) 446-4544  
Fax: (613) 446-4556

### Pack List

Number: 62003

Date: 25-Oct-12

#### To

DART AEROSPACE LTD  
1270 ABERDEEN ST.  
HAWKESBURY, ON K6A 1K7  
Canada

#### Ship To


DART AEROSPACE LTD  
1270 ABERDEEN ST.  
HAWKESBURY, ON K6A 1K7  
Canada

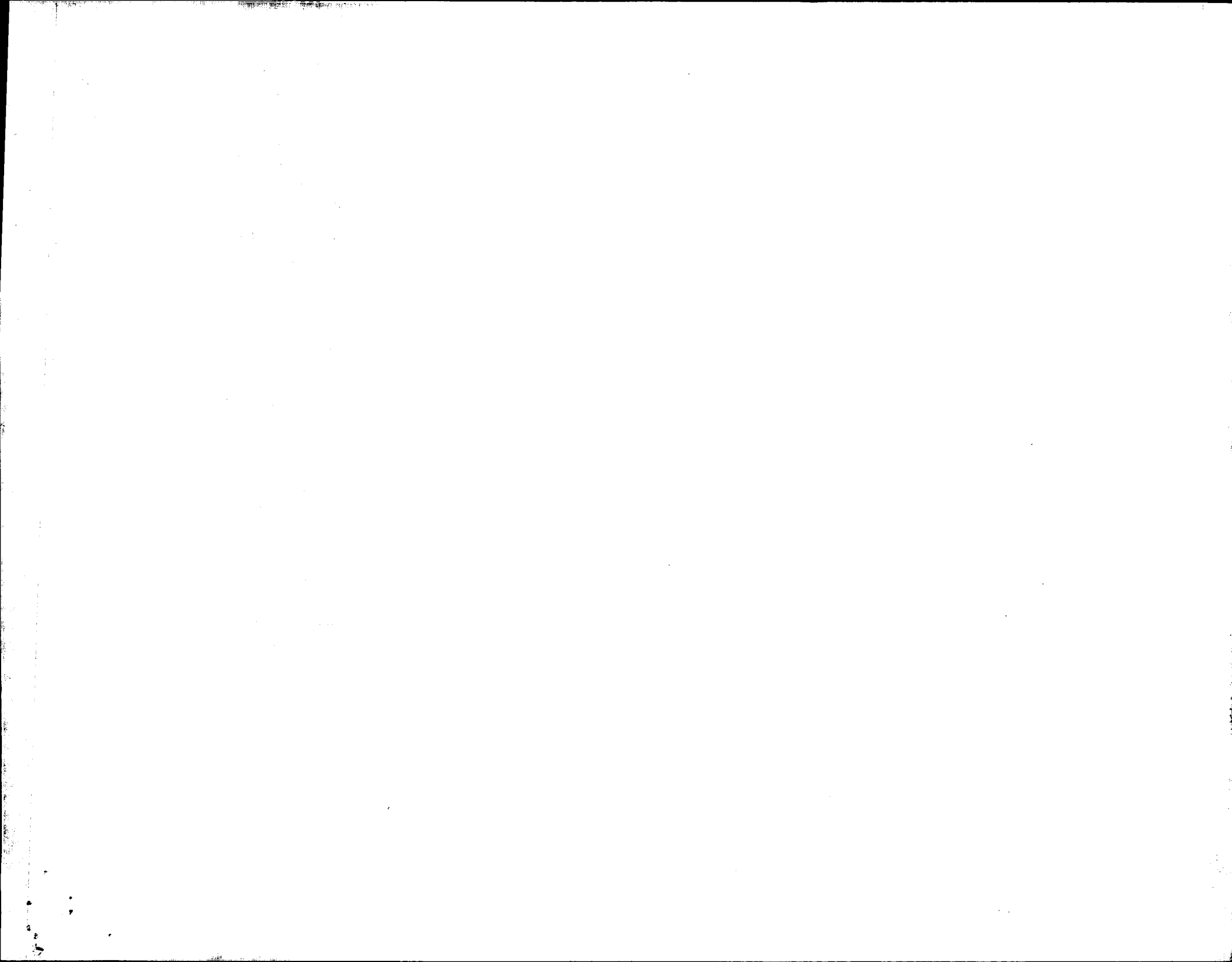
Ph: 613-632-5200

Fax: 613-632-1185

Ph: 613-632-5200

Fax: 613-632-1185

Terms		Ship Via	
Quantity	Description		
1 lot	Part: ASST 2 PCS D4703-043 2 PCS D4726-1 4 PCS 41232-200-002-001  HARD ANODIZE BLACK MIL-A-8625 TYPE III CLASS 2 Job: 20120651	Rev:	Line:
Certificate of Conformance			
A.T.G. Industries certifies that all items in this shipment are in conformance with all requirements, specifications and drawings referenced in the purchase order.			
ISO 9001 : 2008 REGISTERED ATG SALES-2010 TERMS APPLY			
DATE: 25/10/12			
CERTIFIED SIGNATURE: 			
RECEIVER SIGNATURE: _____			



# Purchase Order Receipt Listing

Page 1 of 2

September 2, 2009 11:34:03 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO10312 All Receipt Dates All Line Item Types  
All Item ID/GL/WOs All Rec. Employees All Currencies  
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID/Vendor Name VC-MAG002 Magna Stainless											
PO10312	1		M6061T6B0.750X06. f 000		9/04/09	9/02/09	60.0000	\$10.75	0.0000	0	\$645.00 ✓
CAD	No		6061T6 BAR .750 X f 6.00 112567		60.0000	LAVO01		\$645.00	0.0000	0	
	2		M6061T6B0.750X01. f 000		9/04/09	9/02/09	40.0000	\$3.00	0.0000	0	CL \$120.00
	No		6061-T6 Bar .750 x f 1.00 112567		24.0000	LAVO01		\$120.00	0.0000	0	
	4		M6061T6B0.750X00. f 750		9/04/09	9/02/09	40.0000	\$1.35	0.0000	0	\$54.00 ✓
	No		6061-T6 Bar .750 x f .750 112567		40.0000	LAVO01		\$54.00	0.0000	0	
	5		M6061T6B1.000X02. f 000		9/04/09	9/02/09	60.0000	\$4.75	0.0000	0	\$285.00 ✓
	No		6061-T6 Bar 1.00 x f 2.00 112567		60.0000	LAVO01		\$285.00	0.0000	0	
	6		M6061T6B0.500X06. f 000		9/04/09	9/02/09	40.0000	\$7.25	0.0000	0	\$290.00 ✓
	No		6061-T6 Bar .500 x f 6.00 112567		40.0000	LAVO01		\$290.00	0.0000	0	
	9		M6061T6R0.375 f 000		9/04/09	9/02/09	40.0000	\$0.50	0.0000	0	\$20.00 CL
	No		6061-T6 Round Bar f .375" 112567		24.0000	LAVO01		\$20.00	0.0000	0	
	10		M6061T6S.050 sf		9/04/09	9/02/09	128.0000	\$2.88	0.0000	0	\$368.00 ✓
	No		6061-T6 .050 Sheet sf 112567		128.0000	LAVO01		\$368.00	0.0000	0	

# Receiving Report

Date: 9/9/02

Batch No: M/12567

Supplier: MAGNA

Dart P/O: 10312

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☐ No ☒  
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☐ No ☒  
 Shipment Complete: Yes ☒ No ☒ N/A ☐  
 QC6 Inspection ☒ 8 N/A ☐  
 Work Order 09109/02 N/A ☒

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
M6061	TGB-20040100	40	0	0	40	
M6061	GB1814040	40	0	0	40	
M6061	TGB1-20040100	40	0	0	40	

M6061 FER-0600

Production/Admin:

Date

09/09/02

Received/Costing

RCR 10312

Initial

Q

Initials of receiver (if shipment OK) Level 12

40 0 0 40

Location

M 3045126A

64 0 0 64



**Magna Stainless**  
5775 Kieran St, Saint-Laurent QC H4S 0A3  
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

# INVOICE

Pg 1 of 2 I016123

SOLD TO:

DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKESBURY , ON  
K6A 1K7

SHIP TO:

DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKESBURY , ON  
K6A 1K7

MTR:Y

INVOICE DATE:	09/02/09
ORDER DATE:	09/01/09
SHIP DATE:	09/02/09
ORDER NUMBER:	W017754
PURCHASE ORDER:	P010312

Currency	Sales Person	Ship Via	F.O.B.	Terms
CANADIAN DOLLARS	ERYCK BLAIS	NIR:R-557065-1	PREPAID	NET 30 DAYS

Ln	Back Ordered	Ordered	Unit	Description	Shipped	Price Per	Value
ALUMINUM FLATS							
3		PC	AFL 6061 T6 3/4" x 6" x R/L		3 UN	215.00	645.00
			L030012 20' 3 PC/318 LB				
2		PC	AFL 6061 T6 3/4" x 1" x R/L		2 UN	36.00	72.00
			L026715 20' 2 PC/35 LB				
3		PC	AFL 6061 T6 1" x 2" x R/L		3 UN	95.00	285.00
			L026407 20' 3 PC/142 LB				
2		PC	AFL 6061 T6 1/2" x 6" x R/L		2 UN	145.00	290.00
			L027689 20' 2 PC/142 LB				
ALUMINUM ROUND BAR							
2		PC	ARB 6061 T6 3/8" x R/L		2 UN	6.00	12.00
			L026602 20' 2 PC/5 LB				
ALUMINUM SHEET							
4		PC	ASH 6061 T6 .050" x 48" x 96"		4 UN	92.00	368.00
			L029081 4 PC/92 LB				
2		PC	ASH 6061 T6 .125" x 48" x 96"		2 UN	202.00	404.00
			L030531 2 PC/115 LB				
ALUMINUM SQUARE BAR							
2		PC	ASQ 6061 T6 3/4" x R/L		2 UN	27.00	54.00
			L020464 20' 2 PC/26 LB				
STAINLESS ROUNDS							
5		PC	SRB 303 1/2" x R/L		5 UN	18.00	90.00
			L029043 12'1" 5 PC/40 LB				
7		PC	SRB 303 3/4" x R/L		7 UN	22.00	154.00
			L029510 12'7" 7 PC/134 LB				
STAINLESS SHEET							

RECEIVED SEP 09 2009

Title to the goods sent out on this invoice remains with Magna Stainless Div of CSM ULC until such time as this invoice has been paid in full. Unless otherwise noted terms are 30 days. Interest accrues on all overdue accounts at the rate of 1.5% per month compounded monthly.

Q.S.T. # 1213236471

G.S.T. # 881565899 RT0001



**Magna Stainless**  
5775 Kieran St, Saint-Laurent QC H4S 0A3  
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

# INVOICE

Pg 2 of 2 I016123

## SOLD TO:

DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKESBURY , ON  
K6A 1K7

## SHIP TO:

DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKESBURY , ON  
K6A 1K7

MTR:Y

INVOICE DATE:	09/02/09
ORDER DATE:	09/01/09
SHIP DATE:	09/02/09
ORDER NUMBER:	W017754
PURCHASE ORDER:	P010312

Currency	Sales Person	Ship Via	F.O.B.	Terms
CANADIAN DOLLARS	ERYCK BLAIS	NIR:R-557065-1	PREPAID	NET-30 DAYS

Ln	Back Ordered	Ordered	Unit	Description	Shipped	Price Per	Value
		3	PC	SSH 304 2B 16ga x 48" x 96" L030449 3 PC/252 LB	3 UN	160.00	480.00
		6	PC	SSH 304 2B 20ga x 48" x 96" L029414 6 PC/300 LB	6 UN	125.00	750.00

RECEIVED SEP 09 2009

09/03/09 14:08:51

Merchandise:	3,604.00
Surcharges:	
No Tax Costs:	
GST	180.20
Total Due:	3,784.20

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Q.S.T. # 1213236471  
G.S.T. # 881565899 RT0001



**Magna Stainless**  
5775 Kieran St, Saint-Laurent, Quebec H4S 0A3  
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

# PACKING LIST

L016123

Page: 1 of 2

SOLD TO:  
DART AEROSPACE LTD  
1270 ABERDEEN STREET

SHIP TO:  
DART AEROSPACE LTD  
1270 ABERDEEN STREET

HAWKESBURY, ON  
K6A 1K7  
Contact: CHANTAL

HAWKESBURY, ON  
K6A 1K7  
Ship Terms: PREPAID

STOCK

MAGNA

MTR: Y 3

Currency		Sales Person	Customer Phone	Customer Fax	Customer PO	
CANADIAN DOLLARS		ERYCK BLAIS	(613) 632-5200	(613) 632-1053	P010312	
Sales Order	Terms		Ship Via	Date Ordered	Date Required	Date Shipped
W017754	NET 30 DAYS		NIR:R-557065-1	09/01/09	09/02/09	09/02/09

Ordered	Back Ordered	Unit	Description	Bundle #	Heat #	Shipped
3		PC	ALUMINUM FLATS AFL 6061 T6 3/4" x 6" x R/L			3
2		PC	20' 318 LB / 3 PC AFL 6061 T6 3/4" x 1" x R/L	L030012	09050391A	3
3		PC	20' 35 LB / 2 PC AFL 6061 T6 1" x 2" x R/L	L026715	20296	2
2		PC	20' 142 LB / 3 PC AFL 6061 T6 1/2" x 6" x R/L	L026407	6673	3
			20' 142 LB / 2 PC	L027689	09050391A	2
2		PC	ALUMINUM ROUND BAR ARB 6061 T6 3/8" x R/L			2
			20' 5 LB / 2 PC	L026602	45711	2
4		PC	ALUMINUM SHEET ASH 6061 T6 .050" x 48" x 96"			4
2		PC	92 LB / 4 PC ASH 6061 T6 .125" x 48" x 96"	L029081	1786831	4
			115 LB / 2 PC	L030531	329280101	2
2		PC	ALUMINUM SQUARE BAR ASQ 6061 T6 3/4" x R/L			2
			20' 26 LB / 2 PC	L020464	5716	2

Received by:

Date:

2/6/09

Signature:

# ANALYSIS CERTIFICATE

## Empire Resources, Inc.

One Parker Plaza  
Fort Lee, NJ 07024-2937  
United States  
Tel : (201) 944-2200  
Fax : (201) 944-2226  
tiehr@empireresources.com

69160

EMPIRE Letter Ref # : EWR48745

**\*EWR48745\***  
Monday, 2 February, 2009

Date : February 02, 2009

Sales Contract # : E134911

Alloy-Temper : 6061-T6511

Container # : EXTR20090115

Case # : EXC24015

Cast # : 20296

Die # : A10130

Specification : .750" X 1" X 20' FLAT BAR 6061, T6511

Purchase Order : 076797-DG

Customer Part # :

S  
02/02/09

MADE IN THE USA

### Chemical Composition (WT%)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other Elements	
Min	0.40		0.15		0.8	0.04			Each Max	Total Max
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15
Actual	= 0.61	= 0.22	= 0.19	= 0.05	= 0.85	= 0.07	= 0.01	= 0.019	= 0	

\* Aluminum = Remainder

Actual cast analysis is retained on file.

### Tensile Properties

Test No.	Yield (ksi)	Tensile (ksi)	Elong. (%)
1	35.5	39.1	12.9

ASTM B221-06. AMS-QQ-A-200/8-97

*Ross Toombs*

Authorized Signature

Ross Toombs  
General Manager